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MAIN FEATURES

- Remote updating the firmware of speed dome by RS485 bus
- It can set software ID, to support broadcast ID function.
- Automatically identify PEAMRAIN protocol or PELCO D/P protocol
- The dome can automatically identify SANYO, SONY, HITACHI series camera module.
- With function of auto focus, auto iris, auto white balance and auto backlight compensation etc. to have clear camera scene at any time.
- Built-in linear power for anti-surge and anti-Lightning protection
- According to application, with parts for alarm, wand-proof housing, shield, smoked cover, available
- Built-in function of protocol converter, to support RS485 communication and Manchester code.
- Preset position storage function, it can save 256 preset.
- 8 cruise tour, every tour can call 32 preset.
- 4 Pattern tour, to save the scan route by joystick.
- With automatic scan function, the scope of two limits can be planar scanned gradually, the scanning steps of the limits are optional.
- Automatic recover to movement before power failure.
- Time startup function, to start the movement in the time table have set.
- Power-up action, preset, cruise tour, pattern tour, auto scan, etc. available
- Park action. preset, cruise tour, pattern tour, auto scan, etc. available
- 360°continuous panning.
- -5°□90°tilting rotation, automatic flip function, continuous tilting between -5°to 185°.
- Privacy masking function, maximum 24 masking zone available.
- Limit setting, to set the pan or tilt movement in a scope.
- It can display Temperature, angle, direction, zoom, etc.
- English user menu

PRECAUTIONS

■In case of problem

- Do not use the unit if smoke or a strange odor comes from the unit, or if it seems not to function correctly. Turn off the power immediately and disconnect the power cord, and then consult your dealer or an Authorized Sanyo Service Center.

■Do not open or modify

- Do not open the cabinet, as it may be dangerous and cause damage to the unit. For repairs, consult your dealer or an Authorized Sanyo Service Center.

■Do not put objects inside the unit

- Make sure that no metal objects or flammable substance get inside the unit. If used with a foreign object inside, it could cause a fire, a short-circuit or damage. Be careful to protect the unit from rain, sea water, etc. If water or liquid gets inside the unit, turn off the power immediately and disconnect the power cord, and then consult your dealer or an Authorized Sanyo Service Center.

■Be careful when handling the unit

- To prevent damage, do not drop the unit or subject it to strong shock or vibration.

■Do not install this unit close to magnetic fields

- The magnetic fields may result in unstable operation.

■Protect from humidity and dust

- To prevent damage, do not install the unit where there is greasy smoke or steam, where the humidity may get too high, or where there is a lot of dust.

■Protect from high temperatures

- Do not install close to stoves, or other heat sources, such as spotlights, etc., or where it could be subject to direct sunlight, as this could cause deformation, discoloration or other damages.
- Be careful when installing close to the ceiling, in a kitchen or boiler room, as the temperature may rise to high levels.

■Cleaning

- Dirt can be removed from the cabinet by wiping it with a soft cloth. To remove stains, wipe with a soft cloth moistened with a soft detergent solution and wrung dry, then dry by wiping with a soft cloth.
- Do not use benzine, thinner or other chemical products on the cabinet, as this may cause deformation and paint peeling. Before using a chemical cloth, make sure to read all accompanying instructions. Make sure that no plastic or rubber material comes into contact with the cabinet for a long period of time, as this may cause damage or paint peeling.

ACCESSORIES

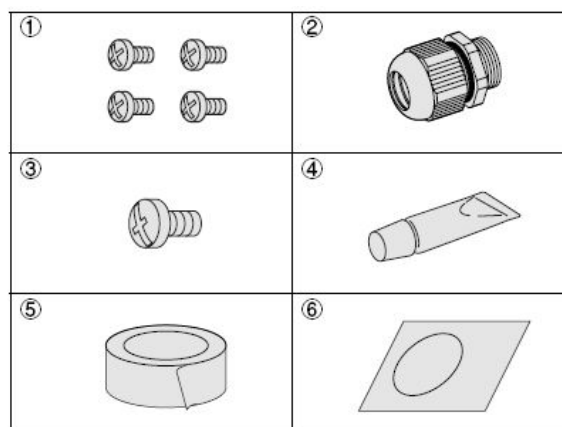
■ TC3032 □ Ceiling mount □

| | |
|---|---|
| ① Transparent cover installation screws (spare: 1)..... | 4 |
| ② Clamp fitting..... | 1 |
| ⑥ Template | 1 |

■ TC3032 □ Indoor mount □

■ TC3032 □ Outdoor mount □

| | |
|---|---|
| ③ Transparent cover installation screws (spare: 1)..... | 1 |
| ④ Lubricating oil..... | 1 |
| ⑤ Sealing tape..... | 1 |

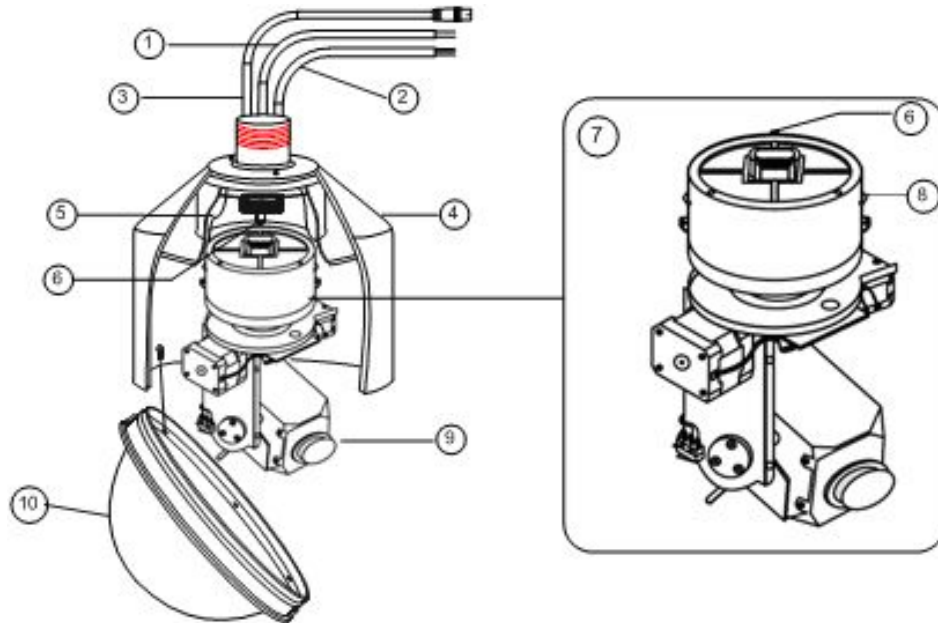


- ★ The company may change due to improvements in product design and specifications, manuals, if the change cause product can not match the user manual ,please follow the product.
- ★ This brochure is owned the manufacturer, without permission of us, any unit or individual shall in any form or means of reproduction parts of the manual and all the contents.
- ★ **Beside usual functions, TC3032 Series High Speed dome with following function can be selective,**
 - Coaxial function;
 - Manchester control;
 - Alarm function □ 4ch inputs/2ch outputs □

PART NAMES • SETTINGS • SETUP ①

●Part Names

TC3032 □ Outdoor mount type □



- 1 Power supply cable 2 Control cable 3 Video output cable
4 Main housing 5 Base 6 Orientation slot
7 Camera drive 8 position lock 9 camera unit
10 Dome cover

● Setup location

Take the following points into consideration when setting up the camera

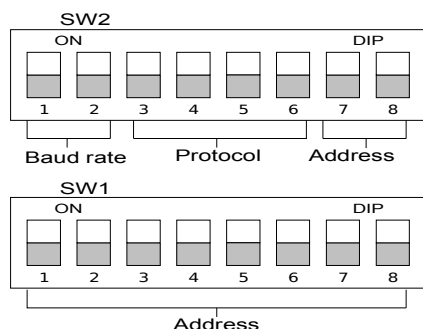
- The wall or ceiling used for installation should have enough strength to bear approximately 4 times the combined weight of the camera and bracket. Select a wall or ceiling that is strong enough to bear such a weight.
- Select a wall or ceiling surface that is completely flat, so that there will be no space between the base of the bracket and the wall.
- Please ensure the positions should be in the scope, no object to block the camera.

■ SETTINGS

■ the dip-switch pillar to set protocol, Baud rate, address, etc., please follow the manual in the drive unit to set, also can refer to followings,

1, Address settings □ SW1 and SW2 □

PART NAMES • SETTINGS • SETUP ①



Default setting:

Address: Dip-switch is all OFF, that is 0, it can control the dome by any address.

Protocol: Auto match, the dome can be controlled by PEARMAIN, PELCO P/D

Baud rate: 9600bps.

Address setup:

Address is set by Binary system, as following, to refer to last row of the address sheet, sum of switch value of dips-switch is the address, e.g. 1, 3, 5 is ON, the switch value is 1, 4, 16, so the address is 1+4+16=21.

2, Address and Protocol:

| SW1 Address | | | | | | | | SW2 Protocol | | | | | | | |
|--------------|-----|-----|-----|-----|-----|-----|-----|--------------|-----------------|-----|-----|-----|-----|-----|-----|
| Dip Switch | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | Dip Switch | 1 | 2 | 3 | 4 | 5 | 6 |
| 0 | OFF | OFF | OFF | OFF | OFF | OFF | OFF | OFF | Auto-match | OFF | OFF | OFF | OFF | OFF | OFF |
| 1 | ON | OFF | OFF | OFF | OFF | OFF | OFF | OFF | PELCO P | ON | OFF | OFF | OFF | OFF | OFF |
| 2 | OFF | ON | OFF | OFF | OFF | OFF | OFF | OFF | PELCO D | OFF | ON | OFF | OFF | OFF | OFF |
| 3 | ON | ON | OFF | OFF | OFF | OFF | OFF | OFF | PEARMAN | ON | ON | OFF | OFF | OFF | OFF |
| 254 | OFF | ON | ON | ON | ON | ON | ON | ON | Sanyo | OFF | OFF | ON | OFF | OFF | OFF |
| Switch Value | 1 | 2 | 4 | 8 | 16 | 32 | 64 | 128 | Manchester code | ON | OFF | ON | OFF | OFF | OFF |
| | | | | | | | | | Samsung | OFF | ON | ON | OFF | OFF | OFF |

Address is 0, it can control the dome by any address.

Address is 255, 255 is broadcast address, any address of dome set, all the dome can be controlled.

The dome supports Coaxial function, if it is coaxial, please set the protocol to Auto-match

- ☞ If the dome don't set the protocol, the dome will regard as "Auto-match".
- ☞ Please refer to manufacturer to confirm what other protocol the dome support.
- ☞ If it set software address (set dome address in its menu), it will not follow other address, address 0 and 255 is ineffective.

3, Baud rate:

| SW2 Baud rate | | |
|---------------|-----|-----|
| Dip Switch | 7 | 8 |
| 2400 | ON | OFF |
| 4800 | OFF | ON |
| 9600 | OFF | OFF |
| 19200 | ON | ON |

PART NAMES • SETTINGS • SETUP ①

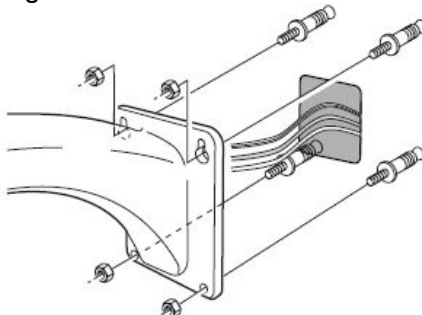
■Setup

1 Install the bracket.

① While aligning the bracket base with the setup position, make four marks on the wall at the mounting bolt locations. Then make holes in these locations for the four M8 anchor bolts and insert the M8 bolts.

② Make a hole for the connection cables in the wall in the middle of the bracket installation surface, and pull the cables all together through the wall to the outside.

③ Pass the connection cables through the hole in the bracket, and then align the bracket base with the four M8 bolts and tighten the M8 nuts to secure the bracket in place.



- You can use the mounting brackets (sold separately) shown in the illustrations below to install the camera to the corner of a wall or to a pillar.



2 Connect the cables.

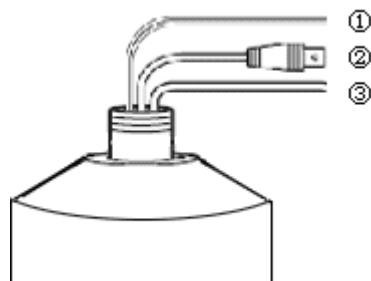
Connect all of the cables that have been passed through the bracket.

1 **Control cable:** Connect to the control cable out from the main cover(with shield), After making the connection, to envelop by insulation rubberized fabric.

② **Video output cable:** Connect to the BNC connector that is coming out from the top of the main cover.

③ **Power supply cable:** Connect to the power supply cable out from the main cover. After making the connection, to envelop it by insulation rubberized fabric.

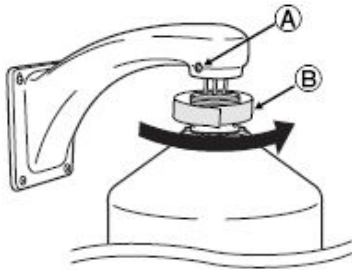
NOTE: Sign here be marked only in image, please identify the cable by the label in practice.



PART NAMES • SETTINGS • SETUP ①

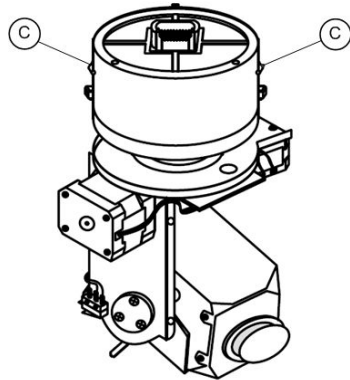
3 Install the main cover to the bracket.

Follow the arrow, to fix the dome housing B into the bracket A and tighten the screws.



4 Install the camera unit.

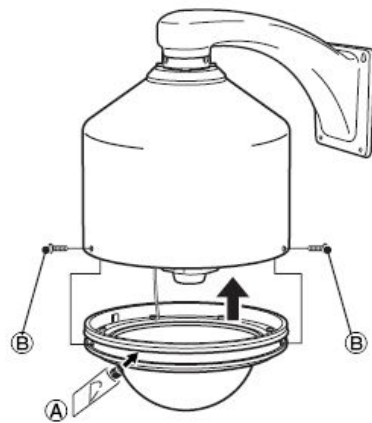
Fit the orientation slot of camera unit into the orientation slot of base, push down the camera unit till the bolt is complete fitness. To check the camera if it is be locked, in case the camera fall off.



5 Install the dome cover.

After spread lubricating oil to the edge of dome cover A, fit the dome cover into the main cover and secure it by tightening the screws B.

Note: Be sure to remove the lens cap from the camera before installing the dome cover.



PART NAMES • SETTINGS • SETUP ②

PART NAMES

TC3032 indoor mount

- 1 Power supply cable ② Control cable ③ Video output cable
④ Main cover ⑤ Base ⑥ Orientation slot
⑦ Camera drive ⑧ position lock ⑨ camera unit
⑩ Dome cover

■ Setup

1 Install the bracket.

- ① While aligning the bracket base with the setup position, make four marks on the wall at the mounting bolt locations. Then make holes in these locations for the four M8 anchor bolts and insert the M8 bolts.
- ② Make a hole for the connection cables in the wall in the middle of the bracket installation surface, and pull the cables all together through the wall to the outside.
- ③ Pass the connection cables through the hole in the bracket, and then align the bracket base with the four M8 bolts and tighten the M8 nuts to secure the bracket in place.

■ Settings

Same settings according to aboves.

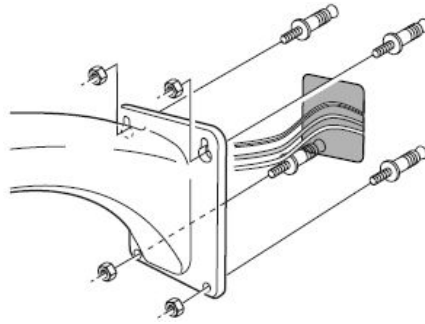
1 Install the bracket.

To the wall

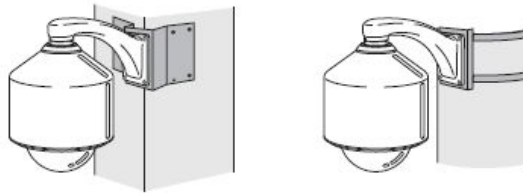
- ① While aligning the bracket base with the setup position, make four marks on the wall at the mounting bolt locations. Then make holes in these locations for the four M8 anchor bolts and insert the M8 bolts.
- 2 Make a hole for the connection cables in the wall in the middle of the bracket installation surface, and pull the cables all together through the wall to the outside.

PART NAMES • SETTINGS • SETUP ②

- ③ Pass the connection cables through the hole in the bracket, and then align the bracket base with the four M8 bolts and tighten the M8 nuts to secure the bracket in place.

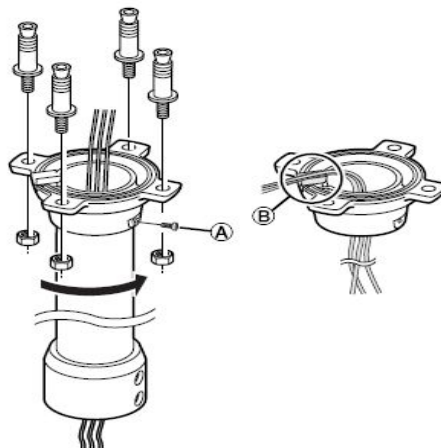


- You can use the mounting brackets (sold separately) shown in the illustrations below to install the camera to the corner of a wall or to a pillar.



Installation to a ceiling

- ① Loosen the bolts **A** of the bracket base, and then turn the bracket base to remove it.
- ② While aligning the bracket base with the setup position, make four marks on the ceiling at the mounting bolt locations. Then make holes in these locations for the four M8 bolts and insert the M8 bolts.
- ③ Make a hole for the connection cables in the ceiling in the middle of the bracket installation surface, and pull the cables all together through the ceiling to the outside. If routing the cables along the surface of the ceiling, to use the cable groove **B** in the bracket base.
- ④ Pass the cables through the hole, and then follow the bracket base with the four M8 bolts and firmly tighten.
- ⑤ After passing the connection cables through the bracket, firmly tighten the screws **A**.



PART NAMES • SETTINGS • SETUP ②

2 Connect the cables.

Connect all of the cables that have been passed through the bracket.

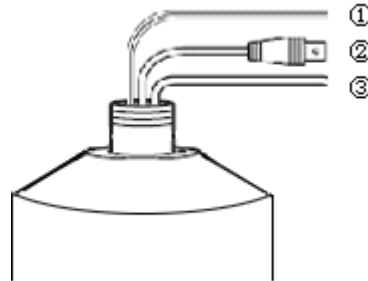
- 1 Control cable:** Connect to the control cable out from the main cover(with shield), After

making the connection, to envelop by insulation rubberized fabric.

② **Video output cable:** Connect to the BNC connector that is coming out from the top of the main cover.

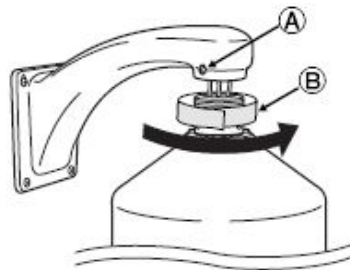
③ **Power supply cable:** Connect to the power supply cable out from the main cover. After making the connection, to envelop it by insulation rubberized fabric.

NOTE: Sign here be marked only in image, please identify the cable by the label in practice.



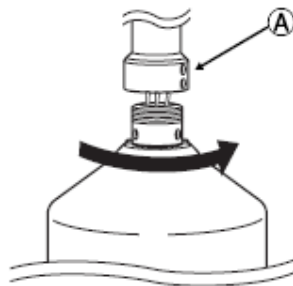
3 Install the main cover to the bracket.

Wind the accessory waterproof sealing tape ⑥ around the connecting part of the main cover, screw the main cover clockwise into the bracket, and then securely tighten the screw ④.



TO the ceiling:

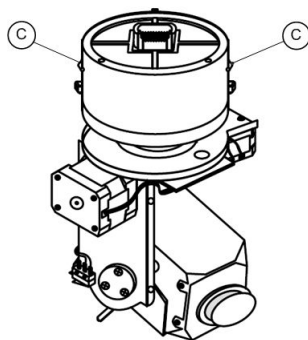
Install Main cover by clockwise into the base of bracket as followings, then tighten the screws.



4 Install the camera unit.

Fit the orientation slot of camera unit into the orientation slot of base, push down the camera unit till the bolt is complete fitness. To check the camera if it is be locked, in case the camera fall off.

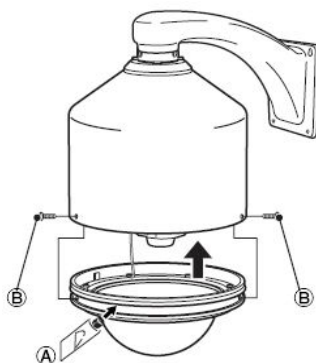
PART NAMES • SETTINGS • SETUP ②



5 Install the dome cover.

After spread lubricating oil to the edge of dome cover (A), fit the dome cover into the main cover and secure it by tightening the screws (B).

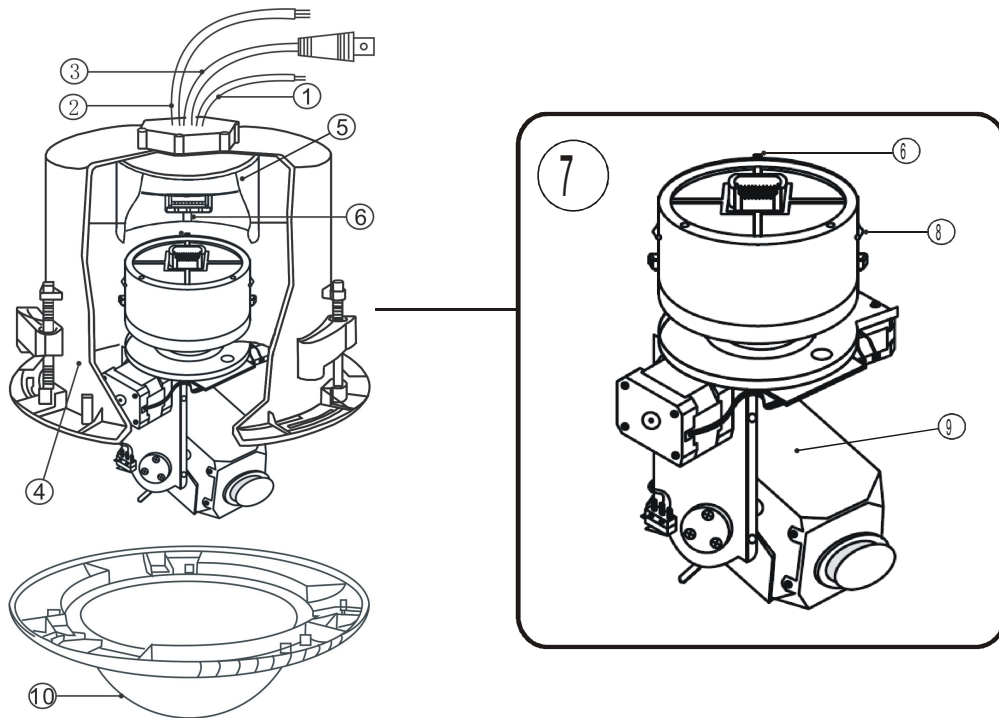
Note: Be sure to remove the lens cap from the camera before installing the dome cover.



PART NAMES • SETTINGS • SETUP ③

■PART NAMES

TC3032 □ ceiling mount □



- 1 Power supply cable 2 Control cable 3 Video output cable
 4 Main cover 5 Base 6 Orientation slot
 7 Camera drive 8 position lock 9 camera unit
 10 Dome cover

■Setup

1 Install the bracket.

- ① While aligning the bracket base with the setup position, make four marks on the wall at the mounting bolt locations. Then make holes in these locations for the four M8 anchor bolts and insert the M8 bolts.
- ② Make a hole for the connection cables in the wall in the middle of the bracket installation surface, and pull the cables all together through the wall to the outside.
- ③ Pass the connection cables through the hole in the bracket, and then align the bracket base with the four M8 bolts and tighten the M8 nuts to secure the bracket in place.

■ Settings

Same settings according to aboves.

■ Setup

When installing the ceiling type camera □PE3030V3□, please sign a position mark on the ceiling by use of follows method, and drill a hole of 225mm diameter.

PART NAMES • SETTINGS • SETUP ③

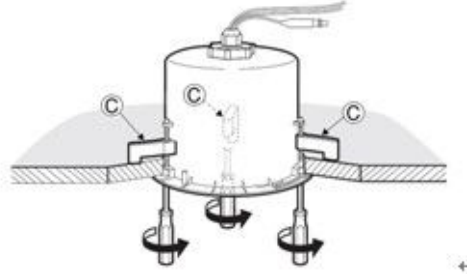
Installation condition:

- **Ceiling thickness:** 0.8cm □ 0.38 inch □ - 4.2cm (1.65 inch).

- **Carrying capacity:** 4 times of weight of camera.

1 Installing main cover to a ceiling

- ① Drill a hole of 225mm diameter in the position of ceiling.
- ② Pull out the three arm of main cover ③, and adjust it fitness to the thickness of the ceiling, make it be locked of main cover.



2 Connect the cables.

Connect all of the cables that have been passed through the bracket.

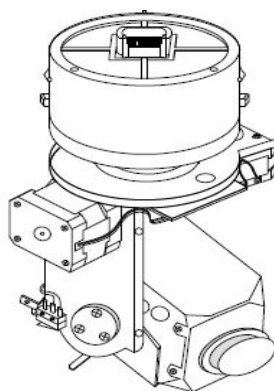
- ① **Control cable:** Connect to the terminals on the connection board inside the main cover (with shield), , to envelop by insulation rubberized fabric.
- ② **Video output cable:** Connect to the BNC connector that is coming out from the top of the main cover.
- ③ **Power supply cable:** Connect to the terminals on the connection board from the main cover, to envelop by insulation rubberized fabric.

NOTE:

- Also you could connect the cables before embedding the main cover into ceiling. Adapt the installation procedures in accordance with the circumstances.
- Sign here on the cables only be marked in the user manual, please recognize in practice the cable by the label 0n it.

3 Install the camera unit.

Fit the orientation slot of camera unit into the orientation slot of base, push down the camera unit till the bolt is complete fitness. To check the camera if it is be locked, in case the camera fall off.



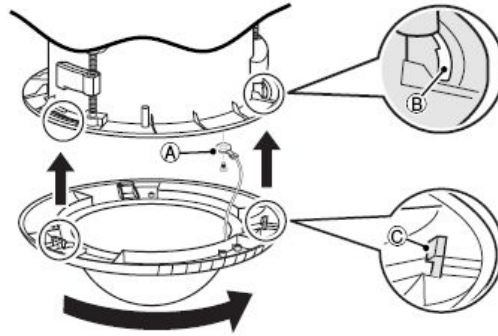
PART NAMES • SETTINGS • SETUP ③

4 Install the dome cover.

- ① install the dome cover drip-prevention wire A in between the main cover and the dome cover.

2 align the projections C on the dome cover with the slot (B) in the base of the main cover, and then turn the dome cover to the right to secure it in place.

Note: Be sure to remove the lens cap from the camera before installing the dome cover.

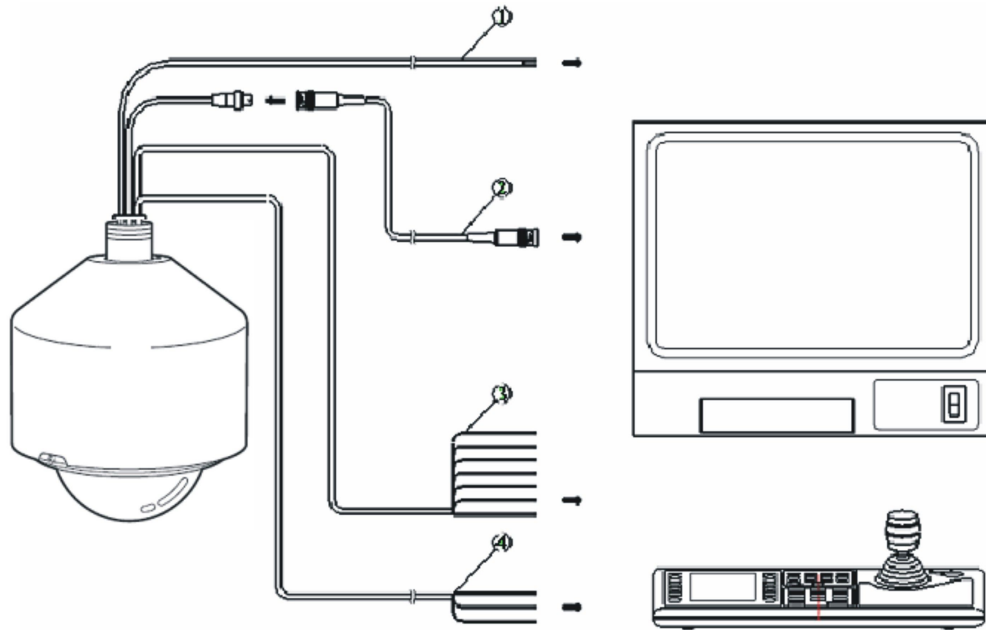


CONNECTIONS

Turn off the power for all equipment before making these connections.

Read the instruction manuals for all of the equipment being connected. In addition, if the cables are connected incorrectly, it may cause smoke or incorrect operation to occur.

■ Connections for using RS-485 control



- 1 **Power supply cable** □ **AC24V** □ **to connect to 24VAC power supply.**
- 2 **Video cable(75Ω)** □ **to connect to Monitor**
- 3 **Alarm inputs/output cable, 4ch alarm inputs and 2ch outputs, support NO/NC alarm**

Remark: this connection can prevent short-circuit or cut-off, it should connect in side of sensor, as N.O. sensor connects a 2.2K resistance in parallel, N.C. sensor connects a 2.2K resistance in series, to make inputs be dis-alarm, if so, whether the sensor in N.C or N.O, alarm will be triggered.

To the alarm inputs port doesn't occupy, in order to avoid error to trigger alarm, we suggest to connect 2.2K resistance to mask.

- 4 **Communication cable, to connect to RS485 A and B.**

NOTE:

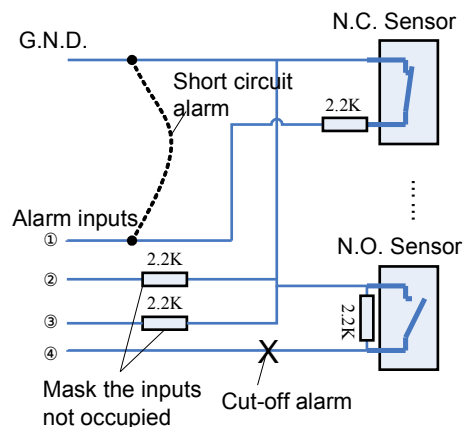
If the camera and the system controller are too far

Apart or overfull dome in same control device, the reliability of the control signals may drop.

as followings,

- Dome movement can not follow the command.
- Other dome will follow the command in control appointed dome.

If this happens, please use RS485 distributor, 120Ω Terminal resistance and check the cables and signal transmission.



Consumable parts

The following parts are consumable parts. In addition, the service life for each part will vary depending on the operating environment and conditions of use.

- Lens
- Slip ring
- FPC cable

OPERATIONS

Speed dome operations by control device

Please refer to above for device connection and settings.

- 1 **Connect all equipment and turn on the power.**

When the power for the camera is turned on, the self-test function for the internal lens starts, and when it finishes, the individual information for that camera is displayed on the screen.

Memory self-testing...
SW1:10000100
SW2:00001001

Protocol: PELCO P
Buadrate: 4800
Dome address: 1
Camera type: Sony

.....

- 👁 During self-testing, if the dome finds fault, it will stay on the fault period or indicate error information.
- 👁 The dip-switch setting in the self-testing is for factory inspection and user checking.

2, To have keyboard

To refer to the keyboard manual, to check and have same protocol, baud rate and address, then it can control the dome.

Exception of Address 0 and 255:

- 👁 When dome address is 0, the controller chooses any address, it can control the dome.
- 👁 When dome address is 255, if the dome don't set the software address (set the address in the menu), any address of dome can be controlled
- 👁 When set address in menu, the dome will only follow the software address.

3, Speed dome operation

To refer to user manual of speed dome, to have direction movement, zooming, iris, focus, preset etc.

1, dome address 2, camera title 3, time & date 4, temperature inside
5, to display all movement name, alarm information
6, preset, preset number and title
7, zoom 8, Pan/tilt angle 9, Direction

OPERATIONS

4, Shortcut function

Pearmain protocol

- 1) Enter into OSD menu
- 2) Preset setup, calling and clear, maximum 128 preset.

- 3) Cruise tour setup, calling and clear, maximum 4 cruise.
- 4) Pattern tour setup and calling, maximum 4 pattern.
- 5) Automatic scan setup and calling
- 6) To stop automatic movement.

Pelco protocol

- 1) Enter into OSD menu
'95' + <preset>+'95' + <preset>
Please ensure that it can not insert any action or commend between '95' + <preset> and '95' + <preset>.
- 2) Preset
Calling □'n' + <preset> n≤99
- 3) Automatic scan
Setup: '95' + <preset>+ '92'+ <PRESET>
Calling □'95' + <preset>+ '99'+ <PRESET>
- 4) Cruise tour
Calling : '95'+ <PRESET> + '97'+ <PRESET>, only 1 cruise tour available here.
- 5) Stop scan
'95'+ <PRESET> + '96'+ <PRESET> to stop all scan in auto priority.
NOTE: Above command can implement in menu, please refer to Menu description.

5, Advanced function

The dome support follow advanced function

- 1, Remote updating the firmware of speed dome by RS485 bus
- 2, network management function

It can inspect current dome information, as followings,

- a. running normally or abnormally (it will indicate its abnormal running)
- b. horizontal/vertical position, zoom
- c. running status (usual running, preset, cruise, auto scan etc.)
- d. temperature, time, total running time
- e. absolute direction calling, it can accept the command with direction, zoom, to move the direction by preset
- f. relative direction calling, similar to absolute direction

above remote updating and Network management function must support semi-duplex communication mode.

OPERATIONS

6, Quick query □details for attachment□

MENU DESCRIPTION

Different protocol with different command to call OSD menu, command of PEARMAIN protocol is '99' + <**SHOT**>, PELCO protocol is '95' + <**PRESET**>+'95' + <**PRESET**>, Following operation in menu.

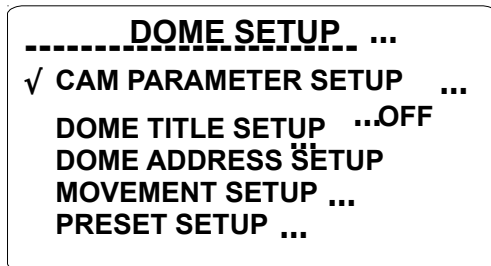
- 1 Move cursor: UP/DOWN/LEFT/RIGHT;
- 2 Enter into sub menu: RIGHT direction;
- 3 Exit to superior menu, LEFT direction, if LEFT has been used, to take CLOSE/OPEN□
- 4 To change numerical value: WIDE/TELE, UP/DOWN, preset calling.

Following is operation manual for the operation interface.

Usual interface

If menu with "...", it indicate to have sub menu.

If menu title with "...", it means not to display menu information by 1 screen, it can go to next page by cursor.



UP/DOWN cursor: UP/DOWN direction

Enter into sub menu: RIGHT direction

Back to superior menu: LEFT direction

Interface with clue

To follow the clue to operate step by step, e.g. the interface to control dome movement setup, e.g. Pattern, horizontal limit etc

To confirm to press □OPEN□ and cancel by □CLOSE□

Increase/decrease frame interface

To increase numerical value: WIDE or UP direction

To decrease numerical value: TELE or DOWN direction

Shortcut key: to call preset (1 to 80 is available)

Exit the interface: CLOSE or LEFT direction

MENU DESCRIPTION

Choice frame interface

UP/DOWN cursor: UP/DOWN direction
Confirm and Back: LEFT direction

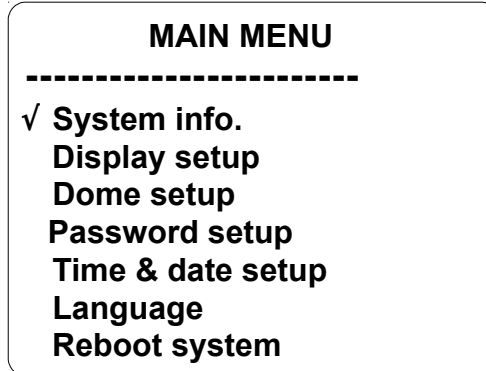
Input frame interface

Zone 1: target zone, to display the input character.
Zone 2: choice zone, to choose wanted information by direction key.
Zone 3: to choose English or China and inputs method
Remark: the character dwelled with cursor will flash, then to choose.
To confirm character, and switch input method by TELE or WIDE;
To delete input character by FAR or “←”
To input Blank by NEAR or “ ”;
Exit input frame by CLOSE/OPEN or “√”;
Next page: “↓”
Input method description.:
 ☐ ☐ ☐ CHINESE
 ☐ EN ☐ Number/ENGLISH Capital
 ☐ en ☐ Number/ENGLISH lowercase
 ☐ ,. ☐ symbol

MENU DESCRIPTION

MAIN MENU

OSD menu including 7 sub menu: System information, Display setup, Dome setup, Password setup, Time & date setup, Language, setup, Reboot system, as followings,



To move cursor ☐ "√" ☐ by joystick UP or DOWN to proper sub menu, to press right direction key to enter the sub menu, left key to exit.

Followings is detailed description of sub menus.

SYSTEM INFO.(SYSTEM INFORMATION) ☐

To check system information of current dome, including product number, product date, product ID series, firmware version, protocol, address, baud rate, camera type, total run time, auxiliary switcher, alarm information, etc., it only for check information, can not revise.

DISPLAY SETUP ☐

To set screen display information, including camera title, preset title, pattern title, cruise tour title, angle, zoom, alarm information, direction, dome address, time & date, temperature, display setup etc.

DOMEST SETUP ☐

To set the dome parameter, including movement setup, preset setup, cruise setup, pattern setup, time-start setup, privacy mask setup, alarm setup, camera setup, initialization setup etc.

PASSWORD SETUP ☐

To set dome password, including, password enable, input and revision.

TIME & DATE SETUP ☐

To set time and date of dome, including YEAR, MONTH, DATE, HOUR, MINUTES, etc.

LANGUAGE SETUP ☐

To set language of dome, currently CHINESE and ENGLISH available.

REBOOT SYSTEM ☐

To reboot system without power Off, the information will not lose.

MENU DESCRIPTION

1, SYSTEM INFORMATION

| System info.... | |
|-----------------|---------|
| ----- | |
| √ PRODUCT MODEL | TC 3030 |
| PRODUCT DATE | 070700 |
| PRODUCT SERIES | 000001 |
| VERSION NO. | V 2.00 |
| PROTOCOL | PE |
| DOME ID | 3 |
| BAUD RATE | 9600 |
| CAM TYPE | SONY |
| TOTAL RUN TIME | 0 h |
| AUX SWITCH | 1020 |
| ALARM INFO. | OFF |

It displays main information of current camera, Product model, product date, product series, version no. have been set in initialization status, Protocol, Baud rate is from dip-switch pillar, Dome ID is from dip-switch pillar set or firmware set, camera type is the camera module in the dome, Total run time is to display total run time from initialization, AUX (Auxiliary) switch, Alarm info. Is to display alarm information. Left direction key to exit.

2, DISPLAY SETUP

| DISPLAY SETUP | |
|-----------------------|------|
| ----- | |
| √ DOME TITLE | DIS |
| PRESET TITLE | ENA |
| PATTERN TITLE | ENA |
| CRUISE TITLE | ENA |
| ANGLE | ENA |
| ZOOM | ENA |
| ALARM | DIS |
| DIRECTION | DIS |
| DOME ADDRESS | DIS |
| TIME & DATE | DIS |
| TEMPERATURE | AUTO |
| DISPLAY SETUP | ENA |
| DISPLAY POSITION | |

To move cursor □“√”□ by joystick UP or DOWN to proper sub menu, to press left/right direction key to exit.

When enter into sub menu, to change whether display current information by joystick UP or DOWN.

MENU DESCRIPTION

IMPORTANT: ENA in above is abbreviation of **ENABLE**, DIS is abbreviation of **DISABLE**, will not explain again in followings. Followings is sub menus.

A. CAMERA TITLE ☐

To refer to fig.2

| CAMERA TITLE | | |
|--------------|-----|--|
| ----- | | |
| √ | DIS | |
| | ENA | |

B. PRESET TITLE ☐

To refer to fig.7

| PRESET TITLE | | |
|--------------|-----|--|
| ----- | | |
| | DIS | |
| √ | ENA | |

C. PATTERN TITLE ☐

To refer to fig.6

| PATTERN TITLE | | |
|---------------|-----|--|
| ----- | | |
| | DIS | |
| √ | ENA | |

D. CRUISE TOUR TITLE ☐

To refer to fig.6

| CRUISE TITLE | | |
|--------------|-----|--|
| ----- | | |
| | DIS | |
| √ | ENA | |

E. ANGLE ☐

To refer to fig.9

| ANGLE | | |
|-------|-----|--|
| ----- | | |
| | DIS | |
| √ | ENA | |

MENU DESCRIPTION

F. ZOOM ☐

To refer to fig.8

| ZOOM | | |
|-------|---|-----|
| ----- | | |
| | | DIS |
| | √ | ENA |

G. ALARM ☐

to display alarm information.

| ALARM | | |
|-------|---|-----|
| ----- | | |
| | | DIS |
| | √ | ENA |

H. DIRECTION ☐

To refer to fig.10

| DIRECTION | | |
|-----------|---|-----|
| ----- | | |
| | √ | DIS |
| | | ENA |

I. DOME ADDRESS ☐

To refer to fig.1

| DOME ADDRESS | | |
|--------------|---|-----|
| ----- | | |
| | √ | DIS |
| | | ENA |

J. TIME & DATE ☐

To refer to fig.3,4

| TIME & DATE | | |
|-------------|---|-----|
| ----- | | |
| | √ | DIS |
| | | ENA |

MENU DESCRIPTION

K. TEMPERATURE ☐

To refer to fig.5

| TEMPERATURE | | |
|-------------|------|--|
| ----- | | |
| ✓ | AUTO | |
| | DIS | |
| | ENA | |

If in 'AUTO', the temperature will display on screen only the temperature inside of dome is higher 70°C

L. DISPLAY SETUP

| DISPLAY SETUP | | |
|---------------|-----|--|
| ----- | | |
| | DIS | |
| ✓ | ENA | |

To set whether display or not all information on screen, if set in DIS, no information will display on screen, **if want to display the parameters, please set ENA of DISPLAY SETUP first.**

M. DISPLAY POSITION SETUP ☐

| DISPLAY POSITION SETUP | | |
|------------------------|------------------|--|
| ----- | | |
| ✓ | DOME ADDRESS | |
| | DOME TIME & DATE | |
| | DOME TITLE | |

It's to set display position of dome ID, time & date, camera title on screen, right direction key to enter in the interface, to fix the display position by direction key, then to press <OPEN> to save and exit, <CLOSE> to give up.

MENU DESCRIPTION

3, Dome setup

```

DOMESTOPUP ...
-----
√ CAM PARAMETER SETUP ...
  DOME TITLE SETUP
  DOME ADDRESS SETUP OFF
  MOVEMENT SETUP ...
  PRESET SETUP ...
  AUTO SCAN SETUP ...
  CRUISE SETUP ...
  PATTERN SETUP ...
  TIME START SETUP
  MASK SETUP ...
  ALARM SETUP ...
  INITIALIZATION SETUP ...

```

To move cursor □“√”□ by joystick UP or DOWN to proper sub menu, to press right direction key to enter and left direction key to exit.

Followings is detailed description to its sub-menu.

A. CAM (CAMERA) PARAMETER SETUP □

To set camera parameter, including BLC (Backlight compensation), White balance, Auto Iris, Auto focus, digital zoom, color & B/W mode, Anti-shake and camera type etc.

```

CAM PARAMETER SETUP ...
-----
√ DIGITAL ZOOM      DIS
  BLC                DIS
  WHITE BALANCE     ...
  IRIS              AUTO
  FOCUS             AUTO
  COLOR B/W MODE    AUTO
  ANTI-SHAKE        ENA
  CAMERA TYPE

```

To move cursor □“√”□ by joystick UP or DOWN to proper sub menu, to press right direction key to enter and left direction key to exit.

MENU DESCRIPTION

DIGITAL ZOOM □

DIGITAL ZOOM

 | √ | DIS
 | | ENA

To choose whether start digital zoom, if in DIS, digital zoom is off, so the camera is only with optical zoom, if choose to run digital zoom, it will have it on optical zoom.

BLC (Backlight compensation) ☐

BLC

 | √ | DIS
 | | ENA

To choose BLC on or off

WHITE BALANCE ☐

WHITE BALANCE ...

 √ SYSTEM INFO. AUTO
 R GAIN
 G GAIN

DIS or ENA is to set WHITE BALANCE to auto or manual, before adjust G GAIN or R GAIN, to set to DIS first.

IRIS ☐

IRIS

 | | DIS
 | √ | ENA

Iris DIS and ENA is to set auto IRIS or manual IRIS.

FOCUS MODE ☐

FOCUS MODE

 | | MANUAL
 | √ | AUTO

Manual or Auto FOCUS is to set focus mode to be manual or automatic.

MENU DESCRIPTION

COLOR & B/W MODE

COLOR & B/W MODE

| | | | |
|--|---|--|------------|
| | √ | | AUTO MODE |
| | | | COLOR MODE |
| | | | B/W MODE |

Auto mode is to set camera can automatically switch between color and B/W according to light, if in Color mode, the camera only will be in color and will not switch, if in B/W mode, the camera will keep in B/W mode.

ANTI-SHAKE ☐**ANTI-SHAKE**

| | | | |
|--|---|--|-----|
| | | | DIS |
| | √ | | ENA |

DIS and ENA of ANTI-SHAKE is to trigger or not function of ANTI-SHAKE.

CAMERA TYPE ☐**CAMERA TYPE**

| | | | | |
|--|---|--|------|-----|
| | | | SONY | 980 |
| | √ | | SONY | 480 |

The camera can recognize camera series, According to the camera series, it can choose the model number to match the camera inside.

B. CAMERA TITLE SETUP ☐

To set current dome title, details setup to refer to input frame operation, display position of camera title refers to fig.2

C. CAMERA ADDRESS SETUP ☐

Address set by menu of camera address is firmware address, effective from 1~9999, if firmware address is 0000, the dome auto recognize the firmware address is close, the dome will follow the hardware address, if not, follow the firmware address.

Dome address

0000

↑↓to change value ←→to change position

MENU DESCRIPTION

D. MOVEMENT SETUP

Including auto flip, speed match, power-on action, park action, manual limit, auto scan setup, north setup, etc.

| MOVEMENT SETUP ... | |
|--------------------|-----|
| ----- | |
| √ AUTO FLIP | ENA |
| SPEED MATCH | ENA |
| AUTO ELEVATION | ENA |
| POWER UP | NO |
| PARK ACTION | ... |
| MANUAL LIMIT SETUP | ... |
| NORTH SETUP | |
| PRIORITY SETUP | MAN |

To move cursor □“√”□ by joystick UP or DOWN to proper sub menu, to press right direction key to enter and left direction key to exit, followings is sub menu of MOVEMENT SETUP.

AUTO FLIP□

| AUTO FLIP | |
|-----------|--|
| ----- | |
| DIS | |
| √ ENA | |

When lens is in vertical position and keep pressing, camera whether will auto flip flatly 180° and continue to vertical movement, DIS and ENA to set auto flip.

SPEED MATCH□

| SPEED MATCH | |
|-------------|--|
| ----- | |
| DIS | |
| √ ENA | |

‘DIS’ is to set movement speed will slow while zoom in, “DIS” is to set movement is nothing to zoom.

MENU DESCRIPTION

AUTO ELEVATION□

AUTO ELEVATION

| DIS
|√| ENA

If in ENA of AUTO elevation, when dome moves to limit, the dome can enlarge limit scope according to zoom in times, to ensure the scene will not limit according zoom in.

POWER UP ACTION □

POWER UP ACTION

|√| NO ACTION
| | PRESET
| | CRUISE
| | PATTERN
| | AUTO SCAN
| | RECOVER

It's to set power on action of speed dome after self-testing, NO ACTION is to keep stillness, if in RECOVER, once power on, the dome will implement action before power off, also, it can recover to cruise tour, pattern, auto scan, other actions of dome will be default 1.

PARK ACTION □

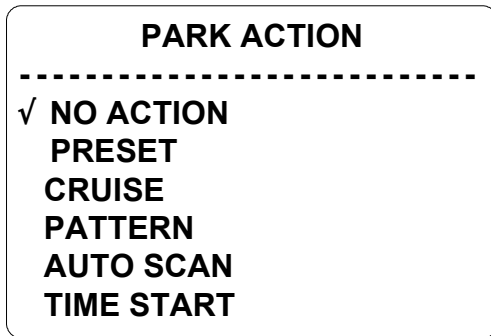
PARK ACTION ...

√ DWELL TIME 2
ACTION NO

DWELL time is to set time, right key to enter into a time frame, details to refer to time frame. Park action is to set action or not in the period not to move the dome.

ACTION of PARK available as followings,

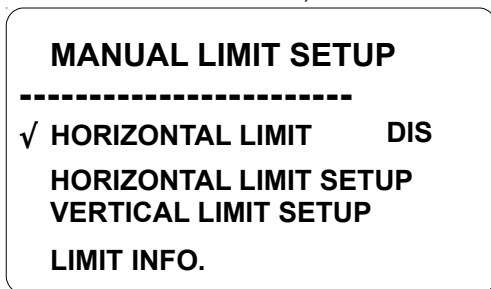
MENU DESCRIPTION



NO ACTION is to keep stillness, PRESET is to call preset 1, CRUISE TOUR, PATTERN and AUTO SCAN is 3 different action, Cruise tour and Pattern is to implement action 1.

MANUAL LIMIT ☐

To set a horizontal zone, to limit all manual operation in this area.



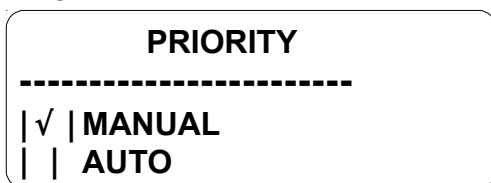
To move cursor ☐ "√" ☐ by joystick UP or DOWN to proper sub menu, to press right direction key to enter and left direction key to exit.

MANUAL LIMIT can set whether start up this function by DIS or ENA, HORIZONTAL LIMIT SETUP and VERTICAL LIMIT SETUP is to set LIMIT scope, Move cursor to LIMIT start bit to press <OPEN> and to terminal by <CLOSE> to confirm and exit, if MANUAL LIMIT has been set before, if want to change, it will jump out a frame to ask whether to cover previous LIMIT settings, LIMIT INFO. Is to check LIMIT details, e.g. HORIZONTAL LIMIT start bit and terminal.

NORTH SETUP

Right key to enter, move dome to the NORTH by direction key, <OPEN> to confirm, then the dome will regard this position as NORTH, NORTH will be the angle start bit.

PRIORITY ☐



To set Priority of advanced movement and manual control, if in MANUAL, when to move advanced movement, manual operation can stop it, if in AUTO, only proper command can stop the running advanced movement.

MENU DESCRIPTION

E. PRESET SETUP ☐

To set preset and its correlative function, including PRESET NO., PRESET STATUS,

SET PRESET, EDIT TITLE, CLEAR CURRENT PRESET, CLEAR ALL PRESET, etc. as followings.

PRESET SETUP

 ✓ **PRESET NO** **1**
STATUS **NO**
SETUP
TITLE EDIT
CLEAR CURRENT
CLEAR ALL

To move cursor ☐ "✓" ☐ by joystick UP or DOWN to proper sub menu, to press right direction key to enter and left direction key to exit.

PRESET NO. ☐

PRESET NO. **1**

☐ **WIDE**☐ **↑** ☐ **TELE**☐ **↓**

EFFECTIVE FROM 1☐ **128**

It is effective to set 1 to 128 preset, if in Pleco protocol, only 99 effective preset can set.

PRESET STATUS ☐

To check current preset status.

PRESET SETUP ☐

To move lens to a position by joystick, to press <OPEN> to confirm setup, it will automatically exit to menu of PRESET SETU

TITLE EDIT ☐

XXX_

0 1 2 3 4 5 6 7 8 9 0
A B C D E F G H I J K
L M N O P Q R S T U V
W X Y Z ● ←

☐ **EN**☐

To edit a title for the preset, it will be on screen, when the preset is calling, it will be a frame as above, detailed operation please refer to INPUT FRAME.

MENU DESCRIPTION

CLEAR CURRENT ☐

To clear current preset setup and its title.

CLEAR ALL ☐

To clear all preset setup and its title.

F. AUTO SCAN SETUP:

As followings

| AUTO SCAN SETUP | |
|-----------------|----|
| ----- | |
| √ SCAN SETUP | |
| INFORMATION | |
| SPEED SETUP | 20 |
| DWELL TIME | 2 |
| STEP SETUP | 1 |

To move cursor "√" by joystick UP or DOWN to proper sub menu, to press right direction key to enter to revise parameter or setup status and left direction key to exit.

SCAN SETUP

Right direction key to enter the setup interface, <CLOSE> to exit and keep previous settings, to move to the start bit by joystick (upper left corner of auto scan scope), to press <OPEN> to set, and then to move to right upper corner to confirm terminal, which is on lower right corner, < OPEN > to set, it will automatically exit to interface of SCAN SETUP.

SCAN INFORMATION

To check setup of AUTO SCAN, including horizontal and vertical information.

SCAN SPEED

To set motor speed in AUTO SCAN, right direction key to enter into operation interface, it will display a frame to set motor speed, effective from 20-60.

SCAN DWELL TIME

To set running time from start to terminal, to press right direction key to have a frame to set the time, effective from 1 to 10.

SCAN STEP SETUP

To set steps from start to terminal.

MENU DESCRIPTION

G. CRUISE TOUR SETUP

As following

```

CRUISE SETUP ...
-----
√ CRUISE NO.      1
STATUS SETUP    NO
TIME SETUP      0
SETUP
TITLE SETUP
MAX.SPEED      112
RUN MODE        SEQ
CLEAR CURRENT
CLEAR ALL

```

To move cursor ☐ "√" ☐ by joystick UP or DOWN to proper sub menu, to press right direction key to enter to revise parameter or setup status and left direction key to exit.

CRUISE TOUR NO ☐

```

CRUISE NO.      1
-----
☐ WIDE ☐ ↑      ☐ TELE ☐ ↓
-----
EFFECTIVE FROM 1 ☐ 4

```

Effective from 1 to 4 ☐ it can set 4 tours.

CRUISE TOUR STATUS ☐

To check setup information of cruise.

CRUISE TOUR TIME SETUP ☐

To set dwell time during presets, refer to time frame operation

CRUISE TOUR SETUP ☐

```

CRUISE 1
-----
001→ 002→ 003→ 010→ 020→ 070
100→ 101→ XXX→ XXX→ XXX→ XXXX
XX→ XXX→ XXX→ XXX→ XXX→ XXXX
XX→ XXX→ XXX→ XXX→ XXX→ XXXX
XX→ XXX→ XXX→ XXX→ XXX→ XXXX
XX→ XXX

```

Number in above is preset no. of current cruise, to fix number by joystick, effective preset is 1 to 128, XXX is the preset number, 'X' + <SET> <ENTER> to change preset

MENU DESCRIPTION

number, or <WIDE> to increase , <TELE> to decrease preset no., <CLOSE> to confirm and exit after setup.

EDIT CRUISE TOUR TITLE ☐

To set a title for current cruise, when enter into title edition, there is a input frame,

details for input frame operation.

MAX. SPEED ☐

To set maximum speed for cruise.

As above figure, the cruise tour contains 9 presets, the speed set can make the cruise smooth.

RUNNING MODE ☐

There are SEQ (in sequence) and RETURN available for application, In sequence, it run from preset 1 to last effective preset, RETURN is to run from preset 1 to last preset, then from last one to preset 1.

CLEAR CURRENT (CRUISE) ☐

To clear current cruise tour and its title.

CLEAR ALL (CRUISE) ☐

To clear all cruise tour and its title.

H. PATTERN SETUP ☐

To set PATTERN TOUR and its correlative functions, including, number of pattern setup, Status, setup, edit title, clear current pattern, clear all pattern, etc., as followings,

| PATTERN SETUP | | |
|---------------|---------------|----|
| ----- | | |
| √ | PATTERN NO | 1 |
| | STATUS | NO |
| | SETUP | |
| | TITLE EDIT | |
| | CLEAR CURRENT | |
| | CLEAR ALL | |

To move cursor ☐ "√" ☐ by joystick UP or DOWN to proper sub menu, to press right direction key to enter to revise parameter or setup status and left direction key to exit.

MENU DESCRIPTION

PATTERN NO. ☐

| | |
|--|--|
| PATTERN NO | 1 |
| ----- | |
| <input type="checkbox"/> WIDE <input type="checkbox"/> ↑ | <input type="checkbox"/> TELE <input type="checkbox"/> ↓ |
| ----- | |
| EFFECTIVE 1 | 4 |

Effective from 1 to 4, it can set maximum 4 pattern, details to operate to refer to frame operation.

PATTERN STATUS ☐

To check current pattern setup information.

PATTERN SETUP ☐

To steer lens by joystick, to choose Start bit of current pattern, **<OPEN>** to begin to record the movement, when movement to terminal, **<OPEN>** to confirm and end the setup, it can insert preset during pattern, command of 'X' + **<SET>** + **<ENTER>** to insert the preset, 'X' is number of preset.

EDIT PATTERN TITLE ☐

To edit a pattern title, details to refer to input frame.

CLEAR CURRENT PATTERN ☐

To clear current pattern and its title.

CLEAR ALL PATTERN ☐

To clear all pattern and its title.

I. TIME START SETUP ☐

To set dome timing, as followings,

| | | |
|----------|--------------------|----------------------|
| 1 | 08:30-09:00 | CRUISE 001 |
| 2 | 00:00-00:00 | NO ACTION 001 |
| 3 | 00:00-00:00 | NO ACTION 001 |
| 4 | 00:00-00:00 | NO ACTION 001 |
| 5 | 00:00-00:00 | NO ACTION 001 |
| 6 | 00:00-00:00 | NO ACTION 001 |
| 7 | 00:00-00:00 | NO ACTION 001 |
| 8 | 00:00-00:00 | NO ACTION 001 |

To set by joystick, to set time scope, action and number, **<TELE>**, **<WIDE>** to revise parameter, and 'X' + **<SET>** ☐ **<ENTER>** to revise number, **<CLOSE>** to exit.

J. PRIVACY ZONE MASKING ☐

When in a rectangle scope of camera scene is of privacy zone, it can mask this scope, when camera scan to this scope, the masking zone will be a color has been set.

This menu including mask no., setup, color, clear all privacy zone etc., as followings,

MENU DESCRIPTION

| PRIVACY MASK | | |
|--------------|---------------|---|
| ✓ | MASK NO | 1 |
| | SCOPE SETUP | |
| | MASK COLOR | 0 |
| | CLEAR CURRENT | |
| | CLEAR ALL | |

To move cursor ☐“√”☐ by joystick UP or DOWN to proper sub menu, to press right direction

key to enter to revise parameter or setup status and left direction key to exit.

MASK NO.☐

| MASK NO | | 1 |
|---|------|----------------------------|
| <input type="checkbox"/> | WIDE | <input type="checkbox"/> ↑ |
| <input type="checkbox"/> | TELE | <input type="checkbox"/> ↓ |
| EFFECTIVE FROM 1 <input type="checkbox"/> 4 | | |

The mask effective number will be change according to camera, refer to Frame for details.

PRIVACY MASK ZONE SETUP☐

To fix the zone want to be masked by joystick, right direction key to setup sub menu, to set length, width of Mask zone or clear current Mask setup, to “PRIVACY MASK LENGTH SETUP” or “PRIVACY MASK WIDTH SETUP” by joystick, <OPEN> to enter into setup, there is a interface of a Frame, refer to Frame operation.

MASK COLOR SETUP☐

| MASK COLOR SETUP | | 0 |
|--------------------------|------|----------------------------|
| <input type="checkbox"/> | WIDE | <input type="checkbox"/> ↑ |
| <input type="checkbox"/> | TELE | <input type="checkbox"/> ↓ |
| EFFECTIVE IS 0 | | |

Different camera with different color.

CLEAR ALL MASK☐

To clear all mask zone.

K. ALARM SETUP☐

The dome supports 4ch alarm signal inputs and 2ch switch outputs (24V/1A), this sub menu is details for alarm settings, alarm signal inputs to refer to “CONNECTION” in above.

Note: alarm is only available alarm enable of any alarm zone, it will run alarm outputs when alarm being triggered, to call preset.

If alarm information set to be “display”, when alarm being triggered, following information will display on scene.

MENU DESCRIPTION

Alarm 3 is to mean alarm being triggered on alarm zone 3.

- ☞ Alarm signal inputs is switch value, it supports NO and NC, refer to "CONNECTION" for details.
- ☞ Alarm outputs is switch value, it can output automatically after alarm trigger, also it can control manually by keyboard "AUX. switch", it is AUX. switch 1 and 2.

This menu is to set alarm input/output time, and alarm enabling setup, as followings

| ALARM SETUP | |
|--------------|-----|
| ----- | |
| √ ACTION ... | |
| RECOVER | DIS |
| TIME | 2 |
| TRIGGER TYPE | NO |
| STATUS | IND |

Alarm action is to set enabling, output switch and alarm running preset of the 4 inputs alarm.

ALARM ACTION □

| ALARM ACTION | |
|---------------|----|
| ----- | |
| √ NUMBER | 1 |
| PRESET | 1 |
| ENABLE STATUS | NO |
| AUX SWITCHER | NO |

Number is alarm number, to set alarm during alarm zone of all 4 alarm inputs.

PRESET here is to call preset when alarm being triggered.

ENABLE STATUS is to set the alarm enable or disable.

AUX (auxiliary) SWITCHER is to set alarm output, with AUX1 and AUX2 two outputs, if set to NO ACTION, when alarm being triggered, it only will call preset, will not output alarm information.

MENU DESCRIPTION

RECOVER □

RECOVER

 |√| **DIS**
 | | **ENA**

It is to set whether to recover the action or not, before alarm being triggered

ALARM SWITCH TIME □

It is to set alarm preset switch time, when 2 or above alarm being triggered at same time, effective is from 2 to 60 seconds, detailed operation is to refer to Frame operation

ALARM TRIGGER TYPE □**TRIGGER TYPE**

 |√| **NO**
 | | **NC**

In "NO", alarm output AUX1A and AUX 1B (AUX2A and AUX2B) is in disconnection when no alarm being triggered, other way around, if in "NC", the AUX1A and AUX 1B (AUX2A and AUX2B) is in connection.

ALARM ENABLE TYPE □**ENABLE TYPE**

 |√| **INDIVIDUAL**
 | | **ALL ENA**
 | | **ALL DIS**

There are 3 types, INDIVIDUAL is set alarm on or off according to each alarm input. ALL ENA and ALL DIS is to set all 4ch alarm on or off.

L. INITIALIZATION RECOVER

To recover the dome to initialization setup.

INITIALIZATION RECOVER

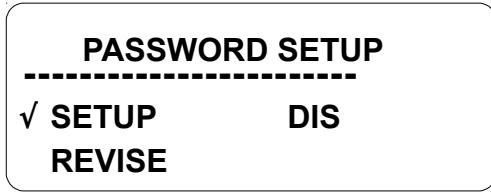
 √ **RECOVER ALL PARA**
CLEAR ALL

To move cursor □ "√" □ by joystick UP or DOWN to proper sub menu, to press right direction key to enter to revise parameter or setup status and left direction key to exit. RECOVER ALL PARA(parameter) is to recover all parameter to initialization setup. CLEAR ALL is to clear all data and parameter. □

MENU DESCRIPTION

4, PASSWORD SETUP

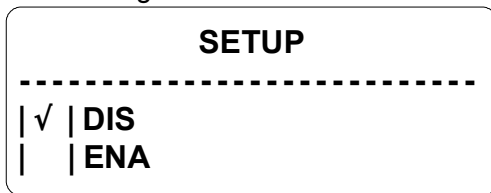
As followings□



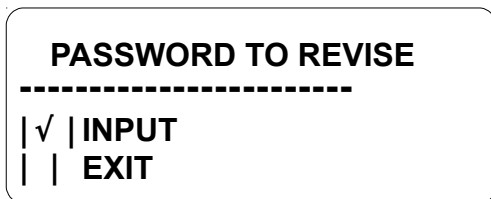
To move cursor □“√”□ by joystick UP or DOWN to proper sub menu, to press right direction key to enter into the interface, as followings,

A. PASSWORD SETUP□

As followings□



Joystick UP or DOWN to set password or not, ENA is to set, to change menu parameter by password, if it wants to change parameter without password inputs, followings frame will be out.



INPUT is to input the password, press left direction key to the input Frame.

EXIT is exit to senior menu.

The password can be number and character, after input, <CLOSE> to confirm, if incorrect, it will clue to incorrect password.

C. PASSWORD REVISE□

The password can be number and character, input Frame for password input, <CLOSE> to exit.

Note: Initialization password is blank, please set new password before setting. If user loses the password, please refer to manufacturer.

MENU DESCRIPTION

5. TIME & DATE SETUP

As followings□

...TIME & DATE SETUP
2000-00-01 23:41
Y M D H M

By left, right direction key to Y, M, D, H, M to revise the parameter by UP and DOWN.

6. LANGUAGE

As followings

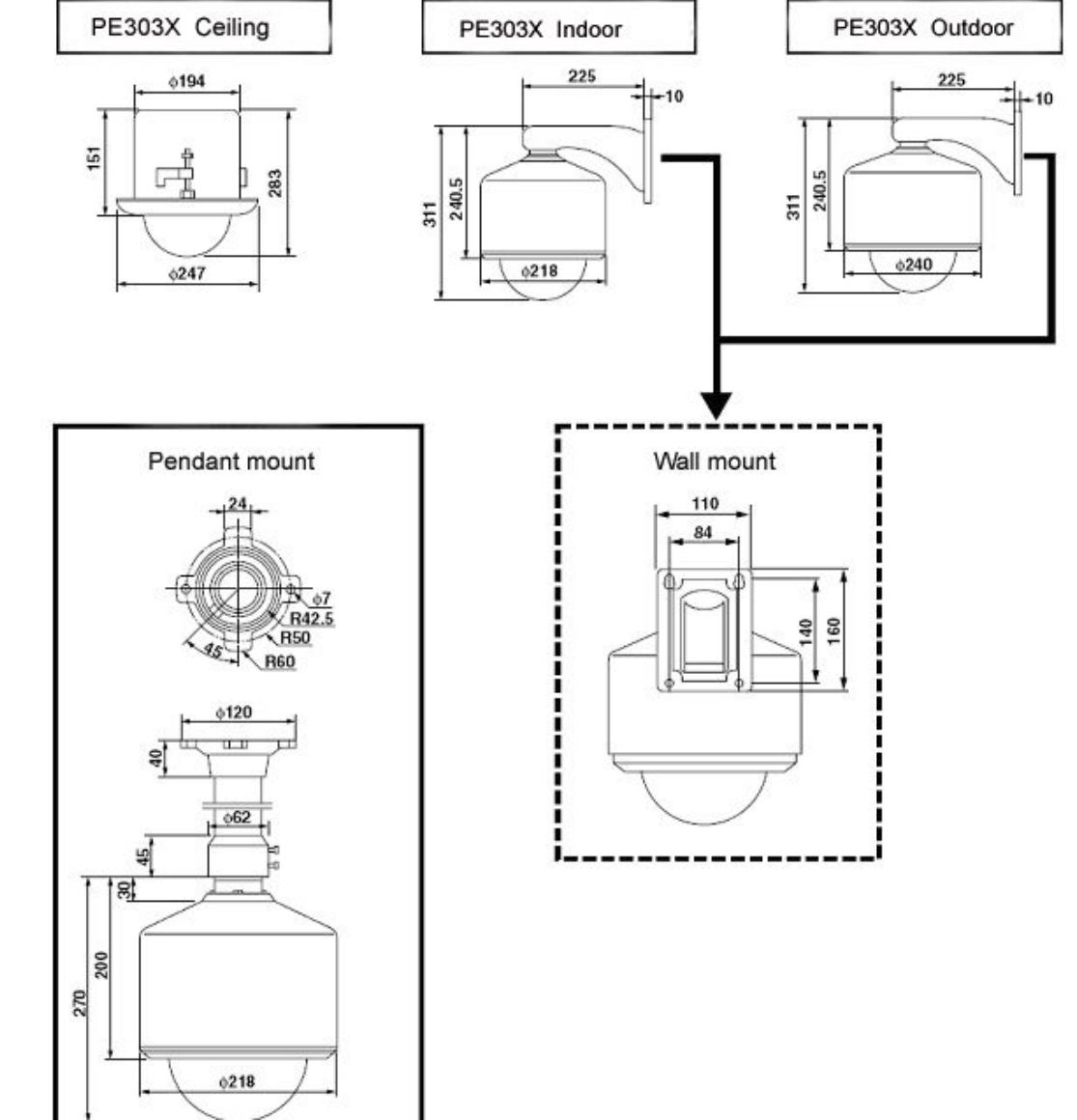
LANGUAGE

|√| **CHINESE**
| | **ENGLISH**

To move cursor □“√”□ by joystick UP or DOWN to proper sub menu, to set laguage.

7. REBOOT SYSTEM

To move cursor □“√”□ by joystick, right direction key to reboot, it is same to power-on, the dome will self-test.



| | |
|------------------------------|---|
| TV format | PAL/NTSC format compliant |
| Scanning method | According to camera module |
| Image sensor | |
| Interlacing | |
| Valid pixels | |
| Synchronization method | |
| Horizontal resolution | |
| Video signal output terminal | |
| S/N ratio | |
| Lens (F1.6 – 3.8) | |
| Rotation range | |
| Rotation speed | |
| Zoom speed | |
| Electronic zoom speed | |
| Joystick auto | |
| Automatic focus | |
| Automatic iris | |
| Iris level | |
| Day/night | |
| Camera | |
| Electronic sensitivity up | |
| Electronic shutter | |
| White balance | Automatic white balance (ATW)/manual white balance (MWB) |
| Backlight compensation | Center-weighted average metering (OFF/ON) |
| AGC gain | ON (fixed) |
| Camera title | No. of setting characters: Max.20, Display toggled off/on using screen display function |
| Privacy masking | Up to 4 privacy masks can be set on-screen / Mask display on/off toggle |
| Automatic mode | 4 modes (Automatic scan, Cruise tour, Pattern tour, Preset position) |
| Preset position | 128 position settings |
| Communication format | RS—485 control |
| Operating environment | TC3032 (indoor ceiling, indoor pendant) Temperature: 0° – +40°C, Humidity: 90% R.H. or lower TC3032 outdoor □ Temperature: –20° – +50°C, Humidity: 90% R.H. or lower (maintained by heater and blower) |
| Power supply | 24 V AC ±10%, 50 Hz (Power supply terminal: on connection board) |
| Power consumption | TC3032 (indoor ceiling, indoor pendant) : 10W TC3032 outdoor: 10W, 35W (heater on) |